

ENVOY® Herbicide

Active Ingredient	By Wt.
*Clethodim	
Other Ingredients	87.4%
*(E)-2[1-[[(3-chloro-2-propenyl)oxy]imino] propyl]-	-5-[2-
(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one	

Contains 0.94 lbs. clethodim per gal. U.S. Pat. No. 4,440,566 R.E. 32,489

KEEP OUT OF REACH OF CHILDREN

WARNING - AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING

Causes substantial but temporary eye injury. Causes skin irritation. Harmful if swallowed or inhaled. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush with plenty of water. Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical

attention if irritation persists.

If swallowed: Give water or milk to drink and telephone for

medical advice. DO NOT make person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, then take person and product container to the nearest medical emergency

treatment center or hospital.

If inhaled: Remove person from exposure area.

Note to Physicians: Emergency Information - call 1-800-892-0099. This product contains a light petroleum solvent, and an aspiration hazard may exist.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear: Coveralls over short-sleeved shirt and short pants, chemical-resistant gloves, such as Barrier Laminate or Viton ≥ 14 mils, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure and chemical-resistant apron when cleaning equipment, mixing or loading.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwater or rinsate.

The use of this product may pose a hazard to the federally designated endangered species of Solano Grass and Wild Rice. Use of this product is prohibited in the following areas where the species are known to exist:

Solano Grass: Solano County, California: the vernal lakes area

bounded by the Union Pacific Railroad and Hastings Road to the north, Highway 113 to the east, Highway 12 to the south, and Travis Air Force

Base to the west.

Wild Rice: Hays County, Texas.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL AND PAMPHLET. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is: coveralls over short-sleeved shirt and short pants, chemical-resistant gloves, such as Barrier Laminate or Viton ≥ 14 mils, chemical-resistant footwear plus socks, protective eyewear and chemical-resistant headgear for overhead exposure.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas, or vicinity where there may be drift.

Do not enter treated areas without protective clothing until sprays have dried.

DISCLAIMER, CONDITIONS OF SALE, LIMITED WARRANTY AND LIMITATION OF LIABILITY

IMPORTANT: Read the entire Label including this Disclaimer, Limited Warranty and Limitation of Liability before using this product. If the terms are not acceptable, return the unopened product within 15 days of purchase.

RISKS OF USING THIS PRODUCT

It is impossible to eliminate all risks associated with the use of this product. Such risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, moisture conditions, irrigation practices, presence of other materials, cultural practices or the manner of use or application, all of which are factors beyond the control of Valent. All such risks shall be assumed by the Buyer.

Valent shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on the label. User assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY

Valent warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the **Risks of Using This Product** described above.

DISCLAIMER OF ALL OTHER WARRANTIES

VALENT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

In no event shall Valent or Seller be liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THIS PRODUCT.

NO AMENDMENTS

Valent and Seller offer this product, and Buyer and User accept it, subject to the foregoing **Disclaimer**, **Conditions of Sale**, **Limited Warranty** and **Limitation of Liability**, which may not be modified by any oral or written agreement.

PROMPT NOTICE OF CLAIM

Valent must have prompt notice as soon as Buyer or User has reason to believe they may have a claim (not to exceed twenty-one days from date of application) so that an immediate inspection of the affected property and growing crops can be made. Unless Buyer and Users shall promptly notify Valent of any claims, they shall be barred from obtaining any remedy.

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label of each product to be used in the tank mix with this product.

GENERAL INFORMATION

Do not apply this product through any type of irrigation system.

FOR USE ON: Ornamentals, Conifer Trees, Non-Bearing Food Crops, and Non-Crop or Non-Planted Areas.

ENVOY Herbicide is a selective postemergence herbicide for control of annual and perennial grasses. ENVOY Herbicide does not control sedges or broadleaf weeds.

Repeated use of ENVOY Herbicide (or similar postemergence grass herbicide with the same mode of action) may lead to the selection of naturally occurring biotypes that are resistant to these products in some grass species.

If poor performance occurs and cannot be attributed to adverse weather or application conditions, a resistant biotype may be present. This is most likely to occur in fields where other control strategies such as crop rotation, mechanical removal, and other classes of herbicides are not used from year to year.

Do not allow ENVOY Herbicide to come in contact with desirable grass crops such as corn, rice, sorghum, small grains or turf, as these and other grass crops will be injured or killed.

Minor leaf spotting may occur on treated plants under certain environmental conditions. New foliage is not affected.

Control Symptoms: Treated grass weeds show a reduction in vigor and growth. Early chlorosis/necrosis of younger plant tissue is followed by a progressive collapse of the remaining foliage. Symptoms will generally be observed in 7 to 14 days depending on grass species treated and environmental conditions.

APPLICATION INFORMATION

Timing of Applications: Apply ENVOY Herbicide postemergence to actively growing grasses according to rate table recommendations. Applications made to grass plants stressed by insufficient moisture or cold temperatures, or to grass plants exceeding recommended growth stages may result in unsatisfactory control. Do not apply under these conditions.

In arid regions where irrigation is used to supplement limited rainfall, ENVOY Herbicide should be applied as soon as possible after an irrigation (within 7 days). In arid regions, a second application of ENVOY Herbicide will generally provide more effective control of perennial grass weeds than a single application. Make second application to actively growing grass 2 to 3 weeks after emergence of new growth.

Cultivation of treated grasses 7 days prior to or within 7 days after application of ENVOY Herbicide may reduce weed control. DO NOT APPLY ENVOY Herbicide if rainfall is expected within one hour, since control may be reduced.

ADDITION OF ADJUVANT OR CROP OIL CONCENTRATE

Crop	Adjuvant Recommendations	
Ornamental Plants	Add non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v). Use of crop oil concentrate is not recommended since it may injure flowers and foliage.	
Conifer Trees, Non- bearing Food Crops, and Non-Crop or Non- Planted Areas	Always use a crop oil concentrate containing at least 15% emulsifier at 1% v/v (but not less than 1 pt. per acre) in the finished spray volume.	

Ground Application: Use of sufficient spray volumes and pressure is essential to ensure complete coverage. Use a minimum of 5 gals. and a maximum of 40 gals. of spray solution per acre. Under the following conditions a minimum of 10 gals. per acre is required: narrow row soybeans, broadleaf herbicide tank mixes, perennial grasses, volunteer corn, drought or stress conditions, heavy grass pressure or when grasses are at or near maximum height. Failure to use a minimum of 10 gals. per acre under these conditions can result in poor coverage and reduced grass control requiring repeat applications. Spray pressures should reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle. Do not use flood nozzles.

Air Application: Use a minimum of 3 gals. of spray solution per acre. Increase spray volumes up to 10 gals. as grass or crop foliage becomes dense.

In California, applications to onions, garlic and shallots should be made in a minimum of 20 gals. of spray solution per acre. In areas outside of California do not exceed 17 fl. oz./A of ENVOY Herbicide in a single application by air.

Spot Treatment: When using hand sprayers or high volume sprayers utilizing hand guns, mix ½% to 1% (0.65 oz. to 1.3 oz. per gal.) ENVOY Herbicide and treat to wet vegetation, while not allowing runoff of spray solution. For uses requiring crop oil concentrate, include crop oil concentrate at 1% (1.3 oz. per gal.) by volume. For uses requiring non-ionic surfactant, include non-ionic surfactant at ¼% (0.33 oz. per gal.) by volume.

RESTRICTIONS AND LIMITATIONS

GENERAL

Do not apply if rain is expected within 1 hour of application as control may be unsatisfactory.

Do not apply a postemergence broadleaf herbicide within one day following application of ENVOY Herbicide or reduced grass control may result.

Do not apply more than 68 fl. oz. of ENVOY Herbicide (0.5 lb. ai) per acre per season. Application on Long Island, New York, is restricted to no more than 34 fl. oz. of ENVOY Herbicide (0.25 lb. ai.) per acre per season.

Do not apply under conditions of stress. Applying ENVOY Herbicide under conditions that do not promote active grass growth will reduce herbicide effectiveness. These conditions include

drought, excessive water, extremes in temperature and low humidity. Grasses under these kinds of stressful conditions will not absorb and translocate ENVOY Herbicide effectively, and will be less susceptible to herbicide activity.

Best perennial grass control can be obtained if rhizomes or stolons are cut up by preplant tillage practices (discing, plowing, etc.) to stimulate maximum emergence of grass shoots. Cultural practices such as continuous no-tillage in which the perennial grass rhizomes or stolons are not cut up results in a very staggered, non-uniform weed emergence. No fewer than two ENVOY Herbicide applications per season per year are recommended at the appropriate weed-growth stage rate under continuous no-till conditions.

Grass crops such as corn, sorghum, wheat, rice, etc. are highly sensitive to ENVOY Herbicide.

Always read and follow the restrictions and limitations for all products whether used alone or in a tank mix. The most restrictive labeling of any product used applies in tank mixtures, including all crop rotational and other crop restrictions.

Tank mixes of ENVOY Herbicide and broadleaf herbicides may result in reduced grass control. If grass regrowth occurs an additional application of ENVOY Herbicide may be necessary.

AVOID SPRAY DRIFT

Do not allow spray from ground or aerial equipment to drift onto adjacent land or crops. When drift may be a problem, do everything possible to reduce spray drift, including:

- Do not spray if wind speeds are or become excessive. Do not spray if wind speed is 10 mph or greater. If sensitive crops or plants are downwind, extreme caution must be used under all conditions. Do not spray if winds are gusty.
- Use extreme caution when conditions are favorable for drift (high temperatures, drought, low relative humidity), especially when sensitive plants are located nearby.
- Do not apply when a temperature inversion exists. If inversion conditions are suspected, consult with local weather services before making an application.
- Further reductions in drift can be obtained by:
 - Using large droplet size sprays. Do not use nozzles that produce small droplets. Orient nozzles downward and slightly backward as needed to reduce drift for ground applications.
 - (2). Orienting nozzles straight back with the windstream, using straight stream orifices for aerial applications. Use the lowest number of nozzles practical with the largest possible orifice size to obtain the minimum 3 GPA volume. Application height and boom length should be set according to manufacturer's instructions to minimize drift.
 - (3). Increasing the volume of spray mixture (for example a minimum of 10 GPA for ground applications) by using higher flow rate nozzles. Using lower pressure with the appropriate nozzle to obtain higher volumes will also reduce drift
 - Applying as close to target plants as practical while maintaining a good spray pattern for adequate coverage.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

ORNAMENTALS

Sugar maples cannot be tapped for syrup within one year of ENVOY application.

DIRECTIONS FOR USE IN ORNAMENTALS

For ornamental plant uses, ENVOY Herbicide can be used to control labeled grass weeds in greenhouses, lathhouses, shadehouses and around outdoor ornamentals, including nurseries, parks, roadside plantings and structure landscapes.

IMPORTANT

ENVOY Herbicide successfully controls weeds in newly transplanted and established non-grassy ornamentals. Plant tolerance to ENVOY Herbicide at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species, crop growth stage, environmental conditions, and application techniques, it is recommended that the user determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of ENVOY Herbicide have investigated the safety factor to ornamental plants not listed on the label.

The following plants have shown a tolerance for ENVOY Herbicide applications:

ORNAMENTAL TREES		
COMMON NAME SCIENTIFIC NAME		
Alder, Red	Alnus oregona	
Ash	Fraxinus spp.	
Basswood	Tilia spp.	
Birch, European White	Betula pendula	
Birch, River	Betula nigra	
Birch, White Betula papyrifera		
Crabapple, Flowering	Malus halliana	
Dogwood, Flowering	Cornus florida	
Golden Chain Tree Laburnum anagyroides		
Maples Acer spp.		
Mulberry, White Morus alba		
Oaks Quercus spp.		
Olive, Wild Elaeagnus angustifolia		
Redbud Cercis canadinsis		
Sweet Gum Liquidambar styraciflua		

GARDEN FLOWERS AND PLANTS		
COMMON NAME SCIENTIFIC NAME		
Ageratum	Ageratum spp.	
Alyssum*	Lobularia maritima	
Asparagus Fern	Asparagus setaceus	
Bleeding Heart	Dicentra spectabilis	
Cast Iron Plant	Aspidistra elatior	
Chrysanthemum	Chrysanthemum spp.	
Cinquefoil	Potentilla spp.	
Coleus	Coleus spp.	
Coral Bells	Heuchera sanguinea	
Cranesbill	Geranium spp.	
Dahlia	Dahlia spp.	
Daisy, African	Osteospermum fruticosum	
Daylily	Hemerocallis spp	
Ousty Miller	Senecio cineraria	
Euonymus	Euonymus spp.	
Gazania	Gazania spp.	
Geranium, House	Pelargonium hortorum	
Heather	Cuphea hyssopifolia	
Iosta	Hosta fortunei	
ris	Iris spp.	
asmine Tobacco	Nicotiana alata	
oosestrife	Lythrum salicaria	
Marigold	Tagetes spp.	
Aitchella repens	Mitchella repens	
Petunia*	Petunia hybrida	
hlox	Phlox spp.	
Pinks	Dianthus spp.	
Portulaca	Portulaca grandiflora	
alvia	Salvia spp.	
Saxifrage	Saxifraga spp.	
Sedum	Sedum spp.	
Selloum	Seaum spp. Philodendrum selloum	
Snapdragon*	Antirrhinum majus	
weet Flag	Antirrunum majus Lacorus gramineus	
ickseed	Coreopsis grandiflora	
Touch-Me-Not	Balsan spp.	
/erbena	Verbena spp.	
violet	Viola spp.	
arrow, Common	Achillea millefolium	
innia	Zinnia elegans	

^{*} Slight foliage or flower speckling has been observed on these species.

GROUND COVERS		
COMMON NAME	SCIENTIFIC NAME	
Bugleweed, Carpet	Ajuga reptans	
Ivy, English	Hedera helix	
Japanese Spurge	e Pachysandra terminalis	
Lilyturf	Liriope muscari	
Moneywort		
Mondo Grass, White Ophiopogon jaburan		
Mondo Grass, Dwarf Ophiopogon japonicus		
Periwinkle, Common Vinca minor		

SHRUBS		
COMMON NAME	SCIENTIFIC NAME	
Abelia	Abelia spp.	
Anise, Purple	Illicium floridanum	
Aucuba	Aucuba spp.	
Azalea*	Rhododendron spp.	
Bamboo	Bambusa spp.	
Barberry, Japanese	Berberis thunbergii	
Barberry, Magellan	Berberis buxifolia	
Bayberry	Myrica pensylvanica	
Bottlebrush	Callistemon citrinus	
Boxwood	Buxus sempervirens	
Camellia	Camellia japonica	
Candytuft	Iberis sempervirens	
Cleyer	Cleyera japonica	
Coralberry	Ardisia crenata	
Crape Myrtle	Lagerstroemia indica	
Coyote Brush	Baccharis pilularis	

SHRUBS			
COMMON NAME	SCIENTIFIC NAME		
Fig, Creeping	Ficus pumila		
Gardenia	Gardenia spp.		
Holly	Ilex spp.		
Honeysuckle	Lonicera pileata		
Indian Hawthorn	Raphiolepis indica		
Jasmine	Jasminum spp.		
Jasmine, Asiatic	Trachelospermum asiaticum		
Jasmine, Confederate	Trachelospermum jasminoides		
Juniper	Juniperus spp.		
Lantana	Lantana spp.		
Nandina*	Nandinia domestica		
Oleander, Common	Nerium oleander		
Oregon Grape	Mahonia aquifolium		
Photinia	Photinia spp.		
Pittosporum	Pittosporum spp.		
Podocarpus	Podocarpus spp.		
Privet	Ligustrum spp.		
Pyracantha	Pyracantha spp.		
Rhododendron	Rhododendron spp.		
Rose	Rosa spp.		
Spirea	Spirea bumalda		
Tea Olive	Osmanthus fragrans		
Vibernum	Vibernum tinus		
Wisteria	Wisteria spp.		
Yellow Sage	Lantana camera		

^{*} Slight foliage or flower speckling has been observed on these species.

RECOMMENDATIONS FOR ANNUAL GRASSES IN ORNAMENTALS

- Apply only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

Grass Species	Scientific Name	Weed* Height - Inches	Rate fl. oz./ Acre	High Rate
			(1)	(2)
Barnyardgrass	Echinochloa crus-galli	2-8	17	34
Broadleaf	Brachiaria platyphylla	2-6	17	34
Signalgrass				
Brome				
California	Bromus carinatus	2-6	17	34
Cheatgrass	Bromus secalinus	2-6	17	34
Downy	Bromus tectorum	2-6	17	34
Ripgut	Bromus diandrus	2-6	17	34
Crabgrass				
Hairy	Digitaria adscendeus	2-6**	17	34
Large	Digitaria sanguinalis	2-6**	17	34
Smooth	Digitaria ischaemum	2-6**	17	34
Southern	Digitaria ciliaris	2-6**	17	34
Crowfootgrass	Dactyloctenium aegyptium	2-6**	17	34
Fall panicum	Panicum dichotomiflorum	2-8	17	34
Field Sandbur	Cenchrus incertus	2-6	17	34
Foxtail				
Giant	Setaria faberi	2-12	17	34
Green	Setaria viridis	2-8	17	34
Yellow	Setaria glauca	2-8	17	34
Goosegrass	Eleusine indica	2-6**	17	34
Itchgrass	Rottboellia exaltata	2-6	17	34
Junglerice	Echinochloa colona	2-6	17	34
Lovegrass	Eragrostis cilanensis	2-6	17	34
(Stinkgrass)				

Grass Species	Scientific Name	Weed* Height - Inches	Rate fl. oz./ Acre	High Rate
Continued			(1)	(2)
Red Rice	Oryza sativa	1-3	17	34
Ryegrass				
Hardy	Lolium perenne	2-6	17	34
Italian	Lolium multiflorum	2-6	17	34
Seedling Johnsongrass	Sorghum halepense	4-10	17	34
Shattercane	Sorghum bicolor	6-18	17	34
Southwestern Cupgrass	Erochloa gracilis	2-6	17	34
Sprangletop				
Amazon	Leptochloa panicoides	2-6	17	34
Bearded	Leptochloa fascicularis	2-6	17	34
Mexican	Leptochloa uninervia	2-6	17	34
Red	Leptochloa filiformis	2-6	17	34
Texas Panicum	Panicum texanum	2-6	17	34
Volunteer Cereals				
Barley	Hordeum vulgare	2-6	17	34
Oats	Avena sativa	2-6	17	34
Rye	Secale cereale	2-6	17	34
Wheat	Triticum aestivum	2-6	17	34
Volunteer Corn	Zea mays	4-12	13	17
Volunteer Corn	Zea mays	12-24	17	34
Volunteer Grain Sorghum	Sorghum bicolor	8-12	17	34
Wild Oats	Avena fatua	2-6	17	34
Wild Proso	Panicum miliaceum	2-10	17	34
Millet				
Witchgrass	Panicum capillare	2-8	17	34
Woolly Cupgrass	Eriochloa villosa	2-8	17	34

^{*} Generally occurs between 3-leaf stage and tillering.

17 fl. oz./acre = approximately 0.4 fl. oz./1000 sq. ft.

34 fl. oz./acre = approximately 0.8 fl. oz./1000 sq. ft.

Add non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v).

RECOMMENDATIONS FOR ANNUAL BLUEGRASS CONTROL WITH ENVOY HERBICIDE IN ORNAMENTALS

Grass Species	Weed Stage	Rate fl. oz./ Acre	High Rate
Annual Bluegrass (Poa annua)	to 4-Leaf	13	34

Apply under favorable soil moisture and humidity which exists within a few days after rainfall or within 7 days after irrigation. Grass needs to be actively growing at time of application(s).

Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.

Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature.

Add non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v).

RECOMMENDATIONS FOR PERENNIAL GRASSES IN ORNAMENTALS

- Apply only to actively growing grasses at recommended weed heights
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

^{**} Length of lateral growth.

Grass Species	Weed Height - Inches	Rate fl. oz/ Acre	High Rate
Bermudagrass (Cynodon dactylon) First Application	3 (or up to 6"	(1)	(2)
Repeat Application(s) (if regrowth occurs)	runners) 3 (or up to 6" runners)	17	34
Foxtail Barley (Hordeum jubatum) First Application Repeat Application(s) (if regrowth occurs)	2-6	17	34
	2-6	17	34
Quackgrass (Agropyron repens) First Application Repeat Application(s) (if regrowth occurs)	4-8	17	34
	4-8	17	34
Rhizome Johnsongrass (Sorghum halepense) First Application Repeat Application(s) (if regrowth occurs)	12-24	17	34
	6-18	13	17
Wirestem Muhly (Muhlenbergia frondisa) First Application Repeat Application(s) (if regrowth occurs)	4-8	17	34
	4-8	17	34

^{(1) 17} fl. oz./acre = approximately 0.4 fl. oz./1000 sq. ft.

Add non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v).

DIRECTIONS FOR USE IN CONIFER TREES, NON-BEARING FOOD CROPS, AND NON-CROP OR NON-PLANTED AREAS

The following plants have shown a tolerance for ENVOY Herbicide applications:

CONIFER TREES

ENVOY Herbicide can be used to control labeled grasses in Christmas tree farms, conifer nurseries and conifer plantations (but not in forests).

COMMON NAME	SCIENTIFIC NAME	
Arborvitae, American	Thuja occidentalis	
Cedars	Cedrus spp.	
Cypress	Taxodium spp.	
Douglas Fir	Pseudotsuga menziesii	
Firs	Abies spp.	
Hemlock, Canadian	Tsuga canadinsis	
Hemlock, Western	Tsuga heterophylla	
Pines	Pinus spp.	
Spruces	Picea spp.	
Yew	Taxus spp.	

NON-BEARING FOOD CROPS

Non-bearing fruit and nut crops are plants which will not bear fruit or nuts for at least one year following ENVOY Herbicide application.

COMMON NAME	SCIENTIFIC NAME
Apples	Malus spp.
Berries	Vaccinium spp.
	Rubus spp.
Cherry, Sweet	Prunus avium
Citrus Fruits	Citrus spp.
Grapes	Vitis spp.
Olives	Olea spp.
Peach	Prunum persica
Pears	Pyrus communis
Prunes	Prunus spp.
Stone Fruits	Prunus spp.
Strawberries	Fragaria spp.
Tree Nuts	Juglans spp. (walnut)
	Carya illionoinensis (pecan)
	Pistacia vera (pistachio)
	Prunus dulcis (almond)
	Corylus maxima (filbert)

NON-CROP OR NON-PLANTED AREAS

The following areas are considered non-crop or non-planted areas: Rights-of-way including railroads, highways, roads, dividers, medians, pipelines, public utility lines, pumping stations, transformer stations and substations, around airports, electric utilities, commercial buildings, manufacturing plants, storage yards, rail yards, fence lines, parkways, ornamental gardens, walkways and patios. Also, beneath greenhouse benches, along driveways and around golf courses.

RECOMMENDATIONS FOR ANNUAL GRASSES

- Apply only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

		Weed* Height -	Rate	High
Grass Species	Scientific Name	Inches	fl. oz./Acre	Rate
Barnyardgrass	Echinochloa crus- galli	2-8	13	17
Broadleaf Signalgrass	Brachiaria platyphylla	2-6	13	17
Brome				
California	Bromus carinatus	2-6	13	17
Cheatgrass	Bromus secalinus	2-6	13	17
Downy	Bromus tectorum	2-6	13	17
Ripgut	Bromus diandrus	2-6	13	17
Crabgrass				
Hairy	Digitaria adscendens	2-6**	13	17
Large	Digitaria sanguinalis	2-6**	13	17
Smooth	Digitaria ischaemum	2-6**	13	17
Southern	Digitaria ciliaris	2-6**	13	17
Crowfootgrass	Dactyloctenium aegyptium	2-6**	13	17
Fall Panicum	Panicum dichotomiflorum	2-8	13	17
Field Sandbur Foxtail	Cenchrus incertus	2-6	13	17
Giant	Setaria faberi	2-12	13	17
Green	Setaria viridis	2-8	13	17
Yellow	Setaria glauca	2-8	13	17
Goosegrass	Eleusine indica	2-6**	13	17
Itchgrass	Rottboellia exaltata	2-6	13	17
Junglerice	Echinochloa colona	2-6	13	17

³⁴ fl. oz./acre = approximately 0.8 fl. oz./1000 sq. ft.

Grass Species	Scientific Name	Weed* Height - Inches	Rate fl. oz./ Acre	High Rate
Lovegrass	Eragrostis	2-6	13	17
(Stinkgrass)	cilanensis			
Red Rice	Oryza sativa	1-3	13	17
Rygrass				
Hardy	Lolium perenne	2-6	13	17
Italian	Lolium multiflorum	2-6	13	17
Seedling	Sorghum	4-10	13	17
Johnsongrass	halepense			
Shattercane	Sorghum bicolor	6-18	13	17
Southwestern	Erochloa gracillis	2-6	13	17
Cupgrass	, o			
Sprangletop				
Amazon	Leptochloa	2-6	13	17
1111112011	panicoides	2 0		- /
Bearded	Leptochloa	2-6	13	17
Deurded	fascicularis	2 0	13	1,
Mexican	Leptochloa	2-6	13	17
Michigan	uninervia	2-0	13	17
Red	Leptochloa	2-6	13	17
Red	filiformis	2-0	13	17
Texas Panicum	Panicum texanum	2-6	13	17
Volunteer	1 инисит техипит	2-0	13	17
Cereals ⁽³⁾				
Barley	Hordeum vulgare	2-6	13	17
	Avena sativa	2-6	13	17
Oats	Secale cereale	2-6	13	17
Rye Wheat		2-6	13	17
	Triticum aestivum		9	
Volunteer Corn ⁽²⁾	Zea mays	4-12	9	13
	_	4.10	17	
Volunteer Corn (S.R.) ⁽¹⁾	Zea mays	4-12	17	
(S.R.)(1)			(suppression	
			only)	
Volunteer Corn ⁽²⁾	Zea mays	12-24	13	17
Volunteer Grain	Sorghum bicolor	8-12	13	17
Sorghum				
Wild Oats	Avena fatua	2-6	13	17
Wild Proso	Panicum	2-10	13	17
Millet	miliaceum			
Witchgrass	Panicum capillare	2-8	13	17
Woolly	Eriochloa villosa	2-8	13	17
Cupgrass				
* Generally occurs	s between 3-leaf stage a	nd tillering	1	

^{*} Generally occurs between 3-leaf stage and tillering.

Sethoxydim resistant volunteer corn

Includes Roundup Ready®, Liberty Link® and IMI-CORN® volunteer corn

When the cereal grain crop (wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment, the minimum ENVOY Herbicide use rate for control is 17 fl. oz./A.

RECOMMENDATIONS FOR ANNUAL BLUEGRASS CONTROL WITH ENVOY HERBICIDE

Grass Species	Weed Stage	Rate fl. oz./ Acre	High Rate
Annual Bluegrass (Poa annua)	to 4-Leaf	13	34

Apply under favorable soil moisture and humidity which exists within a few days after rainfall or within 7 days after irrigation. Grass needs to be actively growing at time of application(s).

Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.

Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature.

Always add a crop oil concentrate containing at least 15% emulsifier at 1 qt./ A by ground to the finished spray volume.

RECOMMENDATIONS FOR PERENNIAL GRASSES

- Apply only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

Grass Species	Weed Height - Inches	Rate fl. oz/ Acre	High Rate
Bermudagrass (Cynodon dactylon) First Application	3 (or up to 6" runners)	17	34
Repeat Application(s) (if regrowth occurs)	3 (or up to 6" runners)	17	34
Fescue, tall (Festuca arundinacea) First Application Repeat Application(s) (if regrowth occurs)	4-8	17	34
	4-8	17	34
Foxtail Barley (Hordeum jubatum) First Application Repeat Application(s) (if regrowth occurs)	2-6	17	34
	2-6	17	34
Orchardgrass (Dactylis glomerata) First Application(s) Repeat Application(s) (if regrowth occurs)	4-8	17	34
	4-8	17	34
Quackgrass* (Agropyron repens) First Application Repeat Application(s) (if regrowth occurs)	4-12	17	34
	4-12	17	34
Rhizome Johnsongrass (Sorghum halepense) First Application Repeat Application(s) (if regrowth occurs)	12-24	17	34
	6-18	13	17
Wirestem Muhly (Muhlenbergia frondisa) First Application Repeat Application(s) (if regrowth occurs)	4-8	17	34
	4-8	17	34

^{*} Control of quackgrass with ENVOY Herbicide may be enhanced by adding AMS at 2.5 to 4.0 lbs./A.

STORAGE AND DISPOSAL

PROHIBITIONS

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

STORAGE

Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers.

Store in cool, dry place.

Do not store diluted spray.

Emergency Response: For help with any spill, leak, fire or exposure involving this material, call day or night 1-800-892-0099.

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

^{**} Length of lateral growth.

CONTAINER DISPOSAL

Triple rinse (or equivalent). Do not reuse container.

Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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ENVOY[®] - Reg. TM of Valent U.S.A. Corporation **IMI-CORN**® - Reg. TM of American Cyanamid Co.

LIBERTY LINK® - Reg. TM AGRO EVO USA Company

ROUNDUP READY® - Reg. TM of Monsanto Company

Manufactured for

Valent U.S.A. Corporation

P.O. Box 8025

Walnut Creek, CA 94596-8025

Made in U.S.A.

9908-ENV-0001

EPA Reg. No. 59639-78 EPA Est. 8655-AR-01

Information contained in this booklet is accurate at the time of printing. Since product testing is a continuous process, please read and follow the directions on the product label for the most current directions and precautionary statements.

Always check with your state to verify state registration status.

For more information call: 1-800-89-VALENT (Professional Products) www.valent.com

ALABAMA, GEORGIA & SOUTH CAROLINA

FOR DISTRIBUTION AND USE ONLY WITHIN THE STATES OF ALABAMA, GEORGIA and SOUTH CAROLINA

ENVOY® HERBICIDE

FOR CONTROL OF ANNUAL BLUEGRASS IN DORMANT BERMUDAGRASS TURF

EPA Reg. No. 59639-78

EPA SLN Nos. AL-990001, GA-990001, SC-980005

Active Ingredient By	Wt.
* Clethodim12	.6%
Other Ingredients	.4%
Contains Petroleum Distillates	
*(E)-2[1-[[(3-chloro-2-propenyl)oxy]imino] propyl]-5-[2-	
(ethylthio)propyl]-3-hydroxy- 2-cyclohexen-1-one	
U.S. Pat. No. 4,440,566, RE 32,489	

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Сгор	Pest	Amount of ENVOY Herbicide Per Acre	Special Instructions
<u>DORMANT</u>	Annual	34 oz./A	Add non-ionic
BERMUDAGRASS	Bluegrass	(0.8 oz./1,000 sq.	surfactant
TURF	(Poa	ft.)	containing at least
(Cynodon	annua)		80% a.i. at the rate
dactylon)		(=0.25 lb. a.i./A)	of 1 pt./50 gal. of
			water (0.25% v/v).
LAWNS and	Apply only to	bermudagrass tha	t is completely
RECREATIONAL	dormant. Cali	brate spot sprays to	deliver 34 oz. of
TURFGRASS	ENVOY/Acre.	Make only one app	lication of ENVOY
Including	per use season.		
Residential Lawns,	Symptoms of I	ENVOV injury to or	nnual bluegrass may
Commercial	J 1	up to 4 weeks after	
Landscapes, Golf	not appear for	up to 4 weeks after	аррисацоп.
Courses and Athletic			
Fields			

USE PRECAUTIONS: DO NOT APPLY ENVOY TO BERMUDAGRASS THAT HAS ANY GREEN TISSUE PRESENT, OR TURF INJURY MAY RESULT. Do not apply or allow drift of ENVOY on to cool season turf species, or on to dormant bermudagrass that has been overseeded with ryegrass or other cool season grasses. Do not apply ENVOY to other dormant warm season turf species. Do not apply ENVOY if rainfall is expected within one hour after application. Avoid mowing bermudagrass for one week before and after application.

Follow all applicable directions, restrictions and precautions on the EPA-registered label. This labeling must be in the possession of the user at the time of pesticide application.

FIFRA §24(c) registrant:

Valent U.S.A. Corporation

P.O. Box 8025

Walnut Creek, CA 94596-8025

ALABAMA, GEORGIA & SOUTH CAROLINA

FOR DISTRIBUTION AND USE ONLY WITHIN THE STATES OF ALABAMA, GEORGIA and SOUTH CAROLINA

ENVOY® HERBICIDE

FOR CONTROL OF COMMON BERMUDAGRASS IN CENTIPEDEGRASS SOD

EPA Reg. No. 59639-78

EPA SLN Nos. AL-980004, GA-980006, SC-980002

Active Ingredient	By Wt.
*Clethodim	12.6%
Other Ingredients	87.4%
Contains Petroleum Distillates	

*(E)-2[1-[[(3-chloro-2-propenyl)oxy]imino] propyl]-5-[2-(ethylthio)propyl]-3-hydroxy- 2-cyclohexen-1-one

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Cron	Pest	Amount of ENVOY Herbicide Per Acre	Special Instructions	
Crop	rest	rei Acie		
Centipedegrass (Ermochloa ophiuroides)	Common Bermudagrass (Cynodon dactylon)	17 to 34 fl. oz./A (0.4 to 0.8 fl. oz./ 1,000 sq. ft.)	Add non-ionic surfactant containing at least 80% a.i. at	
SOD FARMS ONLY		(=0.125 to 0.25 lb. a.i./ A)	the rate of 1 pt./ 50 gal. of water (0.25% v/v).	
	TWO APPLICATIONS WILL LIKELY BE NECESSARY FOR CONTROL. Second application should not be made until 1 to 2 inches of new growth of bermudagrass is observed (approximately 3 to 4 weeks after first application). Use higher labeled rates for more established bermudagrass. Do not apply more than 68 fl. oz. of ENVOY Herbicide/			
	acre/season.			

USE PRECAUTIONS: Do not apply to centipedegrass being grown for seed. Do not apply ENVOY Herbicide until 3 weeks after 100% greenup of centipedegrass in spring. Do not treat or allow drift of ENVOY Herbicide onto other turf species, or damage may result. Do not apply ENVOY Herbicide if rainfall is expected within one hour after application. Avoid mowing sod for one week before and after application.

Follow all applicable directions, restrictions and precautions on the EPA-registered label. This labeling must be in the possession of the user at the time of pesticide application.

FIFRA §24(c) registrant:

Valent U.S.A. Corporation

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